

IN THE CLAIMS

Please cancel Claims 1-60 and add new Claims 61-70 as follows:

61. (New) A cooling apparatus comprising:

a refrigerant tank for reserving a refrigerant to be boiled and vaporized by heat of a heating body;

a radiator for releasing heat of the refrigerant vaporized in said refrigerant tank to an external fluid;

a first boiling area increasing means disposed in said refrigerant tank, said first boiling area increasing means arranged at a lower side of said refrigerant tank for defining an inside of said refrigerant tank into a plurality of first vertically extending passages, and

a second boiling area increasing means disposed in said refrigerant tank, said second boiling area increasing means arranged at an upper side of said refrigerant tank for defining the inside of said refrigerant tank into a plurality of second vertically extending passages, wherein

said second boiling area increasing means horizontally offsets from said first boiling area increasing means for allowing said first vertically extending passages to communicate with said second vertically extending passages.

62. (New) A cooling apparatus according to Claim 61, wherein

said refrigerant tank is substantially vertically arranged, and

an average open area of said second vertically extending passages is larger than an average open area of said first vertically extending passages.

63. (New) A cooling apparatus according to Claim 61, wherein said first and second boiling area increasing means include corrugated fins to define said first and second vertically extending passages, respectively.

64. (New) A cooling apparatus according to Claim 63, wherein said corrugated fins have openings at side surfaces thereof.

65. (New) A cooling apparatus according to Claim 63, wherein said corrugated fins have louvers at side surfaces thereof.

66. (New) A cooling apparatus comprising:
a refrigerant tank for reserving a refrigerant to be boiled and vaporized by heat of a heating body;

a radiator for releasing heat of the refrigerant vaporized in said refrigerant tank to an external fluid;

a first boiling area increasing means disposed in said refrigerant tank, said first boiling area increasing means arranged at a lower side of said refrigerant tank for defining an inside of said refrigerant tank into a plurality of first vertically extending passages, and

a second boiling area increasing means disposed in said refrigerant tank, said second boiling area increasing means arranged at an upper side of said refrigerant tank for defining the inside of said refrigerant tank into a plurality of second vertically extending passages, wherein

said first boiling area increasing means and said second boiling area increasing means are arranged to provide a space therebetween for allowing said first vertically extending passages to communicate with said second vertically extending passages.

67. (New) A cooling apparatus according to Claim 66, wherein said second boiling area increasing means horizontally offsets from said first boiling area increasing means.

68. (New) A cooling apparatus according to Claim 66, wherein
said refrigerant tank is substantially vertically arranged, and
an average open area of said second vertically extending passages is larger than an average open area of said first vertically extending passages.

69. (New) A cooling apparatus according to Claim 66, wherein said first and second boiling area increasing means include corrugated fins to define said first and second vertically extending passages, respectively.

70. (New) A cooling apparatus according to Claim 69, wherein said corrugated fins have openings at side surfaces thereof.

71. (New) A cooling apparatus according to Claim 69, wherein said corrugated fins have louvers at side surfaces thereof.

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